

Registration No.



National Institute of Technology Karnataka, Surathkal
hereby confers the degree of

Doctor of Philosophy

on

Peter Fernandes

in recognition of the research work on

*"Wetting Behaviour Of Bi-quenchants And Metal/Quenchant Interfacial Heat Transfer During
Quenching Of Commercial Steels - A Study"*

carried out in the Department of

Metallurgical And Materials Engineering

and completed all the requirements

in July 2007

Given under the seal of the Institute,

on 1st December 2007

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

Registrar

Director

Chairman, Board of Governors

Sl. No. PH07004

Registration No.



090708MT05P01

National Institute of Technology Karnataka, Surathkal

hereby confers the degree of

Doctor of Philosophy



on

Salyanarayan

in recognition of the research work on

*Studies On Wetting Behavior Microstructure Evolution And Solder Joint Reliability Of
Sn-Cu And Sn-Ag-Cu Lead-Free Solders*

carried out in the Department of
Metallurgical And Materials Engineering
and completed all the requirements
in May 2014

Given under the seal of the Institute,
on 15th November 2014

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K.

Registrar

Sl. No. PH14041

V. Mahalingam
Director

Vanitha Narayanan
Chairperson, Board of Governors

प्रज्ञानं ब्रह्म



INSPIRED BY LIFE

Manipal Academy of Higher Education

Deemed University

This is to certify that

DR. DIVAKARA SHETTY S

has been admitted to the

Degree of

Doctor of Philosophy (Ph.D.)

in recognition of his/her research work entitled

**A STUDY ON CORROSION INHIBITION OF MILD STEEL IN ACID MEDIA
(EFFECT OF INHIBITORS, ACID CONCENTRATION AND TEMPERATURE)**

and he/she having fulfilled the prescribed requirements

on **25/10/2006**

Attested By

PRINCIPAL

Manipal Institute of Engineering & Technology
Wijaya, MYSURU - 574 225

Vice-Chancellor



N^o **007822**

ISSUED UNDER THE SEAL OF MANIPAL ACADEMY OF HIGHER EDUCATION, MANIPAL, INDIA

ON THIS DATE January 26, 2007

Reg. No. 020800021



This is to certify that
GURUSHANTH B VAGGAR
has been conferred the Degree of
Doctor of Philosophy

in

FACULTY OF MECHANICAL ENGINEERING SCIENCES

for the thesis entitled

A STUDY ON CHARACTERIZATION OF THERMAL PROPERTIES FOR
ENHANCEMENT OF THERMAL RESISTIVITY OF HYBRID POLYMER MATRIX
COMPOSITES

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00603

Given under the seal of the University

Attested By

PRINCIPAL

Alva's Institute of Engg. & Technology
Bijapur 586002/03 - 094 225

USN: 2HN13PMN02



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



This is to certify that

Manjunath Kotari

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Computer and Information Sciences

for the thesis entitled

**Formulation of Framework for Security Mechanisms in the
Context of Adaptive Distributed Systems**

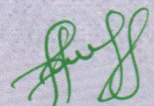
*in recognition of the fulfillment of requirements
for the said degree*

PH 001088

USN: 4NM11PEN02

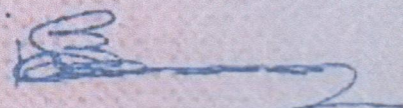
Given under the seal of the University




PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODSIDRI - 574 225, D.K

BELGAUM
DATE January 09, 2018


VICE CHANCELLOR



Reg.No. 10960621056/RG

The Syndicate of the Anna University hereby makes known that **MOHIDEEN BADHUSHA S** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the Faculty of Information and Communication Engineering, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2016**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2009".

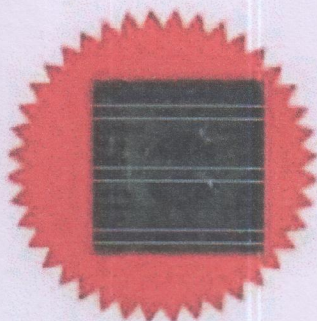
Title of the Thesis:

A COMPREHENSIVE VIDEO STREAMING FRAMEWORK FOR EFFECTIVE PROPAGATION IN MANETs

Given under the Seal of the University

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K



Chennai 600 025
India
May 2017

Controller of Examinations

Registrar

Chairman, Convener Committee
Vice-Chancellor

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University Under Section 3 of UGC Act, 1956)

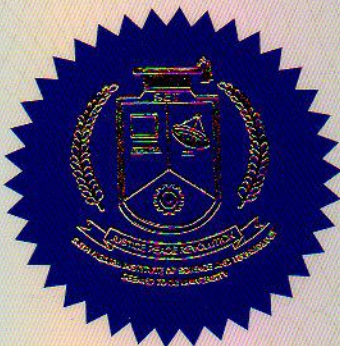


*The Board of Management of Sathyabama Institute of Science and Technology hereby makes known that **SRINIVASAN. G** has been conferred the **DEGREE OF DOCTOR OF PHILOSOPHY** under the **FACULTY OF COMPUTER SCIENCE AND ENGINEERING**, having been certified by duly appointed examiners to be qualified to receive the same on **NOVEMBER 2017** for the thesis entitled **ENERGY EFFICIENT CONGESTION CONTROL PROTOCOL FOR WIRELESS SENSOR NETWORKS FOR RELIABLE DATA TRANSFER** given under the seal of the institution, at Chennai this **TWENTY SECOND** day of **JULY 2018**.*

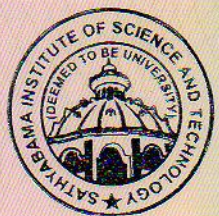
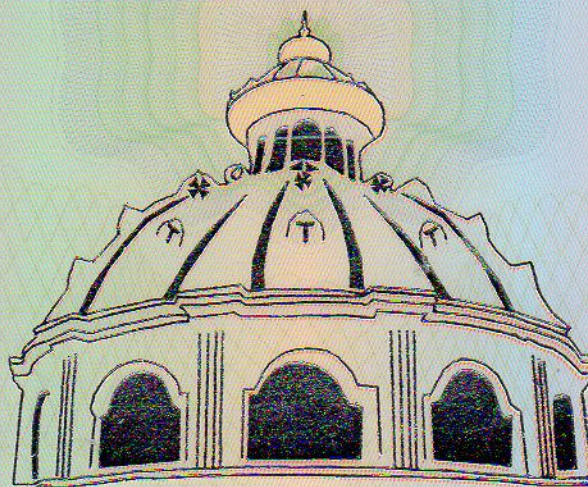
Given under the seal of the Institution

Vice Chancellor

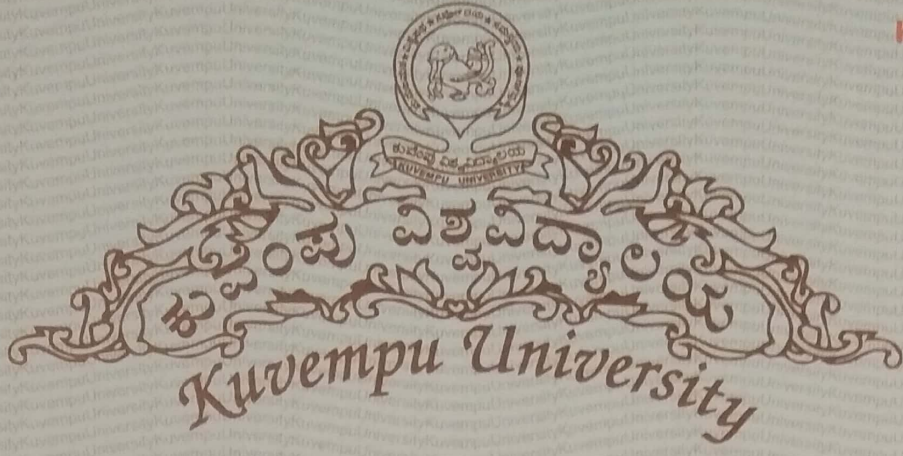
Pro Chancellor



Dated : July 22, 2018



Jeppiaar Nagar,
Chennai - 600119,
Tamil Nadu, INDIA.



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor,
 ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು
the members of the Academic Council and the Syndicate

Certify that

MADHUSUDHAN S

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ,
on the recommendation of the Board of Examiners, admitted to the degree of

Doctor of Philosophy
(Computer Science)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
in recognition of the fulfilment of requirements
 ೩೨ನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.
for the said Degree at the 32nd Convocation

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 18/11/2021

ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 16th June 2022

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ.

Given under the seal of the University.



Jnana Sahyadri, Shankaraghatta-577451
 Shivamogga District,
 Karnataka, India

Date of Issue : 16/06/2022

KUS



[Signature]
 ಕುಲಪತಿ
 Vice-Chancellor

ಮಂಗಳೂರು
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
UNIVERSITY

Accredited Knowledge is Light Grade

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

ಬ್ರಹ್ಮ ಪ್ರಕಾಶ್ ಹೆಚ್ ಪಿ

ಅವರು 2020 ನೆಯ ವರ್ಷದ ಜೂನ್ ತಿಂಗಳಿನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
2021 ರ ಏಪ್ರಿಲ್ ತಿಂಗಳ ಹತ್ತನೆಯ ದಿನದಂದು ನಡೆದ 39ನೆಯ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ

ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ಗಣಕ ವಿಜ್ಞಾನ

ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ

*We, the Chancellor, the Pro-Chancellor, the Vice Chancellor, the members
of Syndicate and Academic Council of Mangalore University
do hereby make known that*

Bramha Prakash H P
has been admitted to the Degree of
DOCTOR OF PHILOSOPHY

*at the 39th Convocation on the 10th day of April 2021 on being duly
certified to have qualified for the same in the month of June 2020*

for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :

"ENHANCEMENT OF QOS AND PERFORMANCE ANALYSIS OF 4G MOBILE NETWORKS"

*in the Faculty of Science and Technology under the Board of Studies in
Computer Science*

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.

Given Under the Seal of the University.



ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
MANGALAGANGOTRI, Karnataka State, INDIA

10.04.2021

ದಿನಾಂಕ Date



ರಿಜಿಸ್ಟ್ರ್ ನಂ. Reg. No.

ಕ್ರಮ ಸಂಖ್ಯೆ : Sl. No. : 0056/2021

(Signature)
ಕುಲಪತಿ

VICE CHANCELLOR

Registration No.



177033MA001



National Institute of Technology Karnataka, Surathkal

hereby confers the degree of
Doctor of Philosophy
on



Chandra Naik

in recognition of the research work on

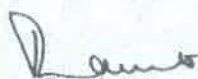
"COMPUTATIONAL INTELLIGENCE ALGORITHMS FOR ENERGY OPTIMIZATION
PROBLEMS IN WIRELESS SENSOR NETWORKS"

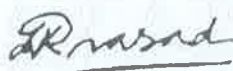
and completed all the requirements

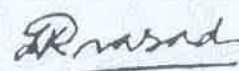
in August 2022

Given under the seal of the Institute,

on 15th October 2022


Registrar


Director


Chairperson, Board of Governors

Sl. No. PH22059

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

ASLAM B NANDYAL

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

AUGMENTING DATA SERVICES FOR OFFLINE AND
SYNCHRONIZATION SUPPORT IN MOBILE BACKEND AS A
SERVICE (MBAAS) FRAMEWORK FOR LARGE DATA OBJECTS.

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 01148

Given under the seal of the University

USN: 4UB16PEJ06

Date of Viva Voce : 27-May-2023



BELAGAVI

DATE : AUGUST 01, 2023

VICE CHANCELLOR

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
ಕರ್ನಾಟಕ, ಭಾರತ



ಶ್ರೀ/ಶ್ರೀಮತಿ ASLAM B NANDYAL

ಇವರು

FACULTY OF COMPUTER & INFORMATION SCIENCES

ವಿಭಾಗದಲ್ಲಿ

AUGMENTING DATA SERVICES FOR OFFLINE AND
SYNCHRONIZATION SUPPORT IN MOBILE BACKEND AS A
SERVICE (MBAAS) FRAMEWORK FOR LARGE DATA OBJECTS.

ಎಂಬ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

PH01148

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

USN: 4UB16PEJ06

Date of Viva Voce : 27-May-2023



ಬೆಳಗಾವಿ

ದಿನಾಂಕ : AUGUST 01, 2023

ಕುಲಪತಿ

BANGALORE



UNIVERSITY

PAREEKSHA BHAVANA, JNANA BHARATHI, BENGALURU - 560 056

No.EX-II/Ph.D/Engg-CS Engg/Ent/RG/2016

Ph.D. Tabulation Register Sl.No. 307 Page No. 48-49

Date: 29.04.2023

NOTIFICATION

Sub: Award of Ph.D Degree to Ramesh G in Computer
Science & Engineering - reg.

Ref: Approval of Vice - Chancellor dated: 28.04.2023.

DECLARATION OF RESULT

DOCTOR OF PHILOSOPHY

The Vice-Chancellor on behalf of the Syndicate has accepted the recommendation of the Board of Examiners for the award of the Degree of Doctor of Philosophy to the following candidate in the subject and faculty shown below. He is accordingly declared qualified to receive the degree of DOCTOR OF PHILOSOPHY.

Name of the Candidate : Ramesh G
Title of the Thesis : "Efficient Techniques for Recognition of Offline Kannada
Language Handwritten Documents"
Faculty & Subject : Engineering : Computer Science & Engineering
Name of the Guide : Dr. Champa H N



BY ORDER

3/5/23

REGISTRAR (EVALUATION)

To,
Ramesh G,
Research Scholar,
Department of Computer Science & Engineering,
UVCE, B.U.B.

Copy to:

1. Dr. Champa H N, Professor, Department of Computer Science & Engineering, UVCE, B.U.B.
2. Dr. T.G.Basavaraju, Professor, Department of Computer Science & Engineering, Government Engineering College, Hassan - 573 201.
3. Dr. B. Eswara Reddy, Professor, Department of Computer Science and Engineering, JNT University, Anantapur, Andhra Pradesh - 515 002.
4. The Chairman, Department of Computer Science & Engineering, B.U.B - 01.
5. The Dean, Faculty of Engineering, B.U.B - 560 001.
6. The Director of Prasanga, BUB, with a request to publish in University Gazette.
7. PS to V.C./Registrar/ Registrar (E), PA to FO, Bangalore University, Bengaluru - 560 056.
8. The Secretary, University Grants Commission, Bahadur Shah Zafar Marg, New Delhi- 110 002.
9. The Secretary, Association of Indian Universities, Deendayal Upadhyaya Marg, New Delhi.
10. Dr. Youd Vir Singh, Library and Documentation Division, Association of Indian Universities (AIU), AIU House, 16-Comrade Indrajit Gupta (Kotla) Marg, New Delhi - 110 002.
11. The Assistant Director, Statistical Cell, Bangalore University, Bengaluru - 560 056.
12. Office Copy.

PRINCIPAL
K. J. Somaiya Institute of Engg. & Technology,
MUMBAI - 400 074, D.K.



Provisional Degree Certificate

for the Degree of

Doctor of Philosophy

Certified that **Mr. Pradeep Nazareth** (Reg. No. **177028CO003**) has successfully completed all prescribed requirements for the degree of Doctor of Philosophy (Ph.D.) of the Institute.

The date of viva voce examination was **27th June 2023**.

The title of the thesis submitted is "**OPTIMIZED VOID-AWARE ROUTING PROTOCOL FOR UNDERWATER ACOUSTIC SENSOR NETWORKS**" This certificate is issued this day, the **July 11, 2023** with the approval of the authorities.

DEAN (Academic)

+

संकायप्रमुख (शैक्षिक)

Dean (Academic)

राष्ट्रीय प्रौद्योगिकी संस्थान कर्नाटक, सुरथकल
National Institute of Technology Karnataka, Surathkal
पी. ओ. श्रीनिवासनगर, मंगलूरु - ५७५०२५, कर्नाटक, भारत
P.O.Srinivasnagar, Mangaluru-575025, Karnataka, India

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

SUDHEER S

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

EXPLORING FLEXIBLE SERVICE SELECTION SECURITY ISSUES
IN MULTI CLOUD SYSTEM

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 01104

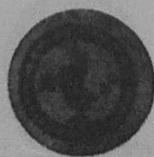
Given under the seal of the University

USN: 4SF15PEJ01

Date of Viva Voce : 20-Mar-2023

BELAGAVI

DATE : AUGUST 01, 2023



VICE CHANCELLOR



This is to certify that

PRADEEP V

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

FUZZY AND NEURAL NETWORK BASED HANDS FREE
COMPUTING USING COMPUTER VISION

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 01145

Given under the seal of the University

USN: 4MC16PCS01

Date of Viva Voce : 23-May-2023

BELAGAVI

DATE : AUGUST 01, 2023



VICE CHANCELLOR



ಕೃಷಿ ವಿಜ್ಞಾನ ವಿಶ್ವವಿದ್ಯಾನಿಲಯ, ಬೆಂಗಳೂರು

ಆಡಳಿತ ಮಂಡಳಿಯ ಅಧಿಕಾರದ ಮೂಲಕ ಮತ್ತು
ಕೃಷಿ ವಿಜ್ಞಾನ ಶಾಖೆಯ ಅಧ್ಯಯನ ಮಂಡಲಿ ಹಾಗೂ ಶೈಕ್ಷಣಿಕ ಪರಿಷತ್ತಿನ ಶಿಫಾರಸಿನ ಮೇರೆಗೆ

ವಿಷ್ಣು ಪ್ರಸನ್ನ, ಕೆ. ಎನ್. ಅವರನ್ನು
ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನದಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸೊಫಿ

ಪದವಿಗೆ ಅಂಗೀಕರಿಸಲಾಗಿದೆ ಮತ್ತು ಅದಕ್ಕೆ ಸಂಬಂಧಿಸಿದ ಎಲ್ಲಾ ಹಕ್ಕುಗಳು ಮತ್ತು ಗೌರವಾದರಗಳಿಗೆ ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ
ಮೊಹರು ಹಾಗೂ ಅದರ ಅಧಿಕಾರಿಗಳ ಸಾಕ್ಷಿಸಹಾಯೊಂದಿಗೆ 1997 ನೇ ಇಸವಿ ಜೂನ್ ತಿಂಗಳ 12ನೇ ದಿನಾಂಕದಿಂದ ಅರ್ಹರಾಗಿರುತ್ತಾರೆ.

By authority of the Board of Regents of the
UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

*and upon recommendation of
the Board of Studies of the Faculty of Agriculture
and the Academic Council*

Wishnu Prasanna, K. N.
has been admitted to the degree of

Doctor of Philosophy
IN HORTICULTURE

and is entitled to all rights and honours thereto appertaining

*Witness the Seal of the University and the signatures of its Officers
this twelfth day of June nineteen hundred ninety seven.*

km. J. V.
ರಿಜಿಸ್ಟ್ರಾರ್
Registrar

[Signature]
ಡೀನ್
Dean

[Signature]
ಕುಲಪತಿಗಳು
Vice-Chancellor



வணிகவியற் புலம்
FACULTY OF COMMERCE

மனோன்மனியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு
காத்தரின் நிர்மலா ஜே
வணிகவியல் பாடப்பிரிவில்

அறிஞர் பட்டம் பெறுவதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற
தேர்வினோர் சான்றளித்தவாறு ஆகஸ்ட் 2014 ஆம் ஆண்டில்
இப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the **MANONMANIAM SUNDARANAR UNIVERSITY**
hereby makes known that **CATHERINE NIRMALA J**
has been admitted to the Degree of **Doctor of Philosophy in**
COMMERCE

he/she having been certified by duly appointed Examiners to be qualified
to receive the same in the year **AUGUST 2014**



Given under the seal of the University.

திருநெல்வேலி, இந்தியா
Tirunelveli, India

நாள், Dated **29.10.2014**

(Dr. N. Kannan)
தேர்வாணையர்

Controller of Examinations

(Dr. T. Tamizh Chelvam)
பதிவாளர்

Registrar

(Dr. A. K. Kumaraguru)
துணை வேந்தர்

Vice-Chancellor



This is to certify that

Siddesh G K

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Electrical and Electronics Engineering Sciences

for the thesis entitled

Neuro-Fuzzy Model Based Routing Protocols in Mobile
Ad-Hoc Networks

*in recognition of the fulfillment of requirements
for the said degree*

PH 000195

Given under the seal of the University

USN: 4PS06PEM02



BELGAUM

DATE

MAY 20, 2014

True copy
Sushish

VICE CHANCELLOR

in

for the thesis entitled

in recognition of the fulfillment of requirements
for the said degree

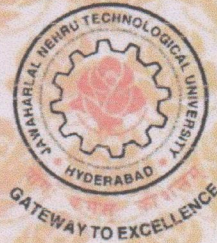
BELGAUM
DATE : MAY 09, 2015


VICE CHANCELLOR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 703322



H.T No.: 0803PH0899

*Mr. Dathathreya
N. Satyanarayan Rao*

having fulfilled the academic requirements in *December, 2015*
has this day been admitted by the Executive Council to the Degree of

*Doctor Of Philosophy
Electronics & Communication Engineering*

Topic : "Intelligent Image Compression and Authentication Using Artificial Neural Networks".

Given under the Seal of the University

Date: 21-04-2017



PRINCIPAL

Abra's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

DIRECTOR OF EVALUATION

REGISTRAR

VICE CHANCELLOR



461061406349

PC No
315000090

*We, the Chancellor, Vice-Chancellor, and
Fellows of the University of Bombay, certify.*

that the Degree of

Doctor of Philosophy

(Science)

*has been conferred on the twenty-eighth day of
the month of March in the year one thousand
nine hundred and seventy-two at Bombay,
on Richard Pinto*

who has been found duly qualified for the same.

*In Testimony whereof are set the Seal of the
said University and the Signature of the said
Vice-Chancellor.*

T. K. Tole

Vice-Chancellor



PRINCIPAL

Govt's Institute of Engg. & Technology,

Warananagar - 574 223, D.R.

PROVISIONAL DEGREE CERTIFICATE

Certified that **Mr. Roshan S** has been provisionally awarded Ph.D. Degree in Electronics and Communication Engineering under the Faculty of Engineering and Technology of REVA University for the thesis entitled **“An Artificial Intelligence Assisted Detection Of Diseases In Chest X-Ray Radiography”** and he is eligible for receiving the degree in the year 2023.

Register No. : R19PEC18



Place: Bengaluru

Date: 24/02/2023


Controller of Examinations

IN95218



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
ಕರ್ನಾಟಕ, ಭಾರತ



ಶ್ರೀ/ಶ್ರೀಮತಿ

GURUPRASAD B

ಇವರು

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

ವಿಭಾಗದಲ್ಲಿ

PERFORMANCE EVALUATION OF PIEZORESISTIVE MEMS/NEMS CANTILEVER
FOR THE DETECTION OF VOLATILE ORGANIC COMPOUNDS IN DIFFERENT
ENVIRONMENTAL CONDITIONS

ಎಂಬ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

PH₂₃00552

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

USN: 4JC17PEA12



ಬೆಳಗಾವಿ

ದಿನಾಂಕ : FEBRUARY 24, 2023

ಕುಲಪತಿ

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

GURUPRASAD B

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

PERFORMANCE EVALUATION OF PIEZORESISTIVE MEMS/NEMS
CANTILEVER FOR THE DETECTION OF VOLATILE ORGANIC COMPOUNDS
IN DIFFERENT ENVIRONMENTAL CONDITIONS

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00552

Given under the seal of the University

USN: 4JC17PEA12



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR



BANGALORE UNIVERSITY

Phone : 080 - 22244082
22961007
22961003
22961013

Pareeksha Bhavana
Gandhi Bhavan Road
Jnana Bharathi Campus
BANGALORE - 560 056

EX-II/Ph.D/REGN/PDC/DC/2022-23

Date :
08.02.2023

PROVISIONAL DEGREE CERTIFICATE

This is to certify that **Dr. Veeraprabha V** has completed the Degree of **Doctor of Philosophy in Electronics & Communication Engineering** on his thesis entitled **"Performance Evaluation of Secure Routing Protocols for Emergency Healthcare"** under the guidance of **Dr. G Narendra Kumar**, Professor, (Retd.) Department of Electronics & Communication Engineering, BUB, vide notification No.EX-II/Ph.D/Engg-Elec.& Comm. Engg./Ent./VV/2016, dated: 06.01.2023.

The Ph.D Degree certificate will be issued at the next Convocation of Bangalore University, Bengaluru, subject to his applying for it.



Srinivas P 9/2/23
REGISTRAR (EVALUATION)

ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ
KARNATAK UNIVERSITY

KUD31933



DHARWAD

95



ನಾವು, ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ, ಸಿಂಡಿಕೇಟ್ ಹಾಗೂ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ ಸದಸ್ಯರು
*We, the Chancellor, Pro-Chancellor, Vice-Chancellor, Members of the
Syndicate and Academic Council of the Karnatak University certify that*
ಉಮೇಶಚಂದ್ರ ಎಚ್. ಜಿ.

ಇವರು ಸಂಬಂಧಿಸಿದ ಪದವಿ

ಸೆಪ್ಟೆಂಬರ್ ೨೦೧೦

ರಲ್ಲಿ

ಅರ್ಹರಾದ ನಿಮ್ಮ ಇವರಿಗೆ

UMESHCHANDRA H. G

*for having qualified for the Degree in September 2010
the Degree of*

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಭೂಗರ್ಭ ಶಾಸ್ತ್ರ

Doctor of Philosophy

GEOLOGY

ಪದವಿ ಪ್ರದಾನವನ್ನು ಧಾರವಾಡ ದಲ್ಲಿ ಎರಡು ಸಾವಿರದಾ ಹನ್ನೊಂದನೆಯ ಫೆಬ್ರವರಿ
ಇಪ್ಪತ್ತೆರಡ ರಂದು ಅಧಿಕೃತಗೊಳಿಸಿದ್ದೇವೆ.

*has been conferred on him / her at Dharwad, on the twentysecond day
of the month of February in the year Two thousand eleven.*

ಈ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆ ಮತ್ತು ಕುಲಪತಿಯವರ ರುಜುಗಳಿಂದ ಇದನ್ನು ಪ್ರಮಾಣೀಕರಿಸಲಾಗಿದೆ.
*In Testimony whereof are set the Seal of the said University and the Signature
of the said Vice-Chancellor.*



PRINCIPAL
Alva's Institute of Engg. & Technology,
Major MOODBIDRI - 574 225, D.K

ಕುಲಪತಿ Vice-Chancellor

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



This is to certify that

AJITHA H

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Civil Engineering Sciences

for the thesis entitled

*Removal of Oil And Grease From Wastewater Using Laterite
As Adsorbent Material*

*in recognition of the fulfillment of requirements
for the said degree*

PH 001929

Given under the seal of the University

USN: 4MC12PCN03



PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

BELGAUM

DATE : March 18, 2019

VICE CHANCELLOR



S. No. D00187

I. D. No. BEP/2016-02



Faculty of Agricultural Engineering & Technology

This is to certify that *Shashikumar*
son / daughter of Smt. *Rathnamma*
and Sri *Mahesha*

having completed the graduation requirements for the Degree of

Doctor of Philosophy

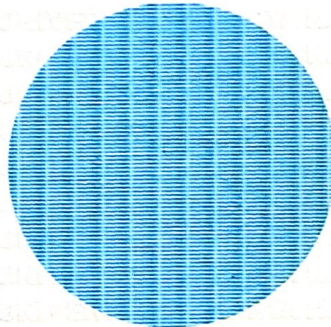
In the major field of *Farm Machinery & Power Engineering*

of this University during *October, 2019* is hereby admitted to
the said Degree at the *Fifty Third* Convocation.

Given under the Seal of the University

Lam, GUNTUR, A.P. India
(Formerly at Rajendranagar,
Hyderabad)

Date : 8 JUN 2022



P. G. Studies
Dean - P. G. Studies

T. G. S. S. S.
Registrar

Aug.
Vice-Chancellor

ಮಂಗಳೂರು
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

ರಾಮಪ್ರಸಾದ ಎ.ಟಿ.

ಅವರು ೨೦೧೦ನೆಯ ವರ್ಷದ ಆಗಸ್ಟ್ ತಿಂಗಳಿನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
೨೦೧೧ ರ ಎಪ್ರಿಲ್ ತಿಂಗಳ ಮೂವತ್ತನೇ ದಿನದಂದು ನಡೆದ ೨೯ನೆಯ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ
ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ವಸ್ತು ವಿಜ್ಞಾನ
ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the chancellor, the Pro-Chancellor, the Vice-Chancellor
and the members of the Syndicate and Academic Council of Mangalore University
do hereby make known that*

RAMAPRASAD A.T.

has been admitted to the Degree of

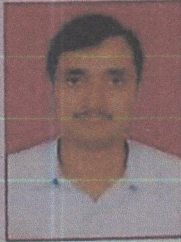
DOCTOR OF PHILOSOPHY

*at the 29th Convocation held on the 30th day of April 2011 on being duly certified to have
qualified for the same in the month of August 2010
for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:*

**"ELECTRON BEAM INDUCED MODIFICATIONS IN CHITOSAN AND CHITIN/POLYANILINE
BLENDS"**

*in the faculty of Science and Technology under the Board of Studies in Materials Science
ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.*

Given Under the Seal of the University



ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ, ಭಾರತ
MANGALAGANGOTRI, KARNATAKA, INDIA
ದಿನಾಂಕ / Date: 30.04.2011

ನುಲಪತಿ
VICE-CHANCELLOR

PRINCIPAL
Abra's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

REPUBLIC OF FRANCE

Ministry of Higher Education and Research

UNIVERSITE LE MANS

DOCTORATE (PhD)

In view of the education code, in particular its article L.612-7 ;

In view of the research code, in particular its article L.412-1 ;

In view of the decree no. 2002-481 of 8th April 2002 regarding university grades and titles and national diplomas ;

In view of the order of 3rd September 1998 regarding the theses charter ;

In view of the order of 7th August 2006 regarding doctoral training ;

In view of the supporting documents produced by Mr. SHASHI KUMAR KUMARA SWAMY, born on 30th December 1984 at BANGALORE (INDIA), for doctorate registration ;

In view of the Board's report attesting that the candidate has defended a thesis as on 18th February 2013 concerning the following subject: Solid state NMR of paramagnetic metal-organic and inorganic systems,

prepared in the MATTER, MOLECULES, MATERIALS in the region PAYS DE LOIRE, doctoral school, before a Board presided by ABDELHADI KASSIBA, UNIVERSITY PROFESSOR and made up of JENS DITTIMER, UNIVERSITY PROFESSOR, CHRISTOPHE LEGEIN, UNIVERSITY PROFESSOR, MALGORZATA MAKOWSKA-JANUSIK, UNIVERSITY PROFESSOR, PHILIPPE PELUPESSY, RESEARCH AND TRAINING ENGINEER, PAUL VASOS, UNIVERSITY PROFESSOR;

In view of the deliberations of the Board ;

The NATIONAL DEGREE OF DOCTOR OF PHILOSOPHY IN PHYSICS

is issued to Mr. SHASHI KUMAR KUMARA SWAMY

And confers the grade of Doctor

to enjoy all the rights and privileges pertaining thereto



Traduction certifiée conforme
à l'original qui a été présenté

Place : Nantes

Date : 13 March 2013

Signature

Holder

Signature

President

Rachid EL GUERJOURA

Signature and seal

Rector of Academy

Chancellor of Universities

William MAROIS

No. LEMANS 9245254

PRINCIPAL
Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, D.K

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR ET DE LA RECHERCHE
UNIVERSITÉ LE MANS

DOCTORAT

Vu le code de l'éducation, notamment son article L.612-7 ;

Vu le code de la recherche, notamment son article L.412-1 ;

Vu le décret n° 2002-481 du 8 avril 2002 modifié relatif aux grades et titres universitaires et aux diplômes nationaux ;

Vu l'arrêté du 3 septembre 1998 relatif à la charte des thèses ;

Vu l'arrêté du 7 août 2006 relatif à la formation doctorale ;

Vu les pièces justificatives produites par M. SHASHI KUMAR KUMARA SWAMY, né le 30 décembre 1984 à BANGALORE (INDE), en vue de son inscription au doctorat ;

Vu le procès-verbal du jury attestant que l'intéressé a soutenu, le 18 février 2013 une thèse portant sur le sujet suivant : Solid state NMR of paramagnetic metal-organic and inorganic systems.
préparée au sein de l'école doctorale MATIÈRE, MOLECULES, MATERIAUX EN PAYS DE LOIRE, devant un jury présidé par ABDELHADI KASSIBA, PROFESSEUR DES UNIVERSITÉS et composé de JENS DITTMER, PROFESSEUR DES UNIVERSITÉS, CHRISTOPHE LEGEIN, PROFESSEUR DES UNIVERSITÉS, MALGORZATA MAKOWSKA-JANUSIK, PROFESSEUR DES UNIVERSITÉS, PHILIPPE PELUPESSY, INGENIEUR D'ETUDES DE RECH. ET FORMATION, PAUL VASOS, PROFESSEUR DES UNIVERSITÉS ;

Vu la délibération du jury ;

Le DIPLÔME NATIONAL DE DOCTEUR EN PHYSIQUE

est délivré à **M. SHASHI KUMAR KUMARA SWAMY**

et confère le grade de docteur,

pour en jouir avec les droits et prérogatives qui y sont attachés.

Fait à Nantes, le 13 mars 2013

Le titulaire

Shashi Kumar

Le Président



N° LEMANS 9245254

Rachid EL GUERROUMA

/2013201200038

Le Recteur d'Académie,
Chancelier des universités



William MAROIS

[Signature]

PRINCIPAL
Alka's Institute of Engg. & Technology,
Mysr. MOODSURI - 574 225, D.K

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
MANGALORE UNIVERSITY



ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹ ಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ಶೈಕ್ಷಣಿಕ ಮಂಡಳಿ ಸದಸ್ಯರಾದ ನಾವು



*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and the
members of the Syndicate and Academic Council of
Mangalore University do hereby make known that*

ಜಯರಾಮ ಎ. ಆಮ
JAYARAMA A.

has been admitted to the Degree of
2007ನೆಯ ವರ್ಷದ ಜನವರಿ ತಿಂಗಳಲ್ಲಿ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವುದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ

ಭೌತಶಾಸ್ತ್ರದಲ್ಲಿ
ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ
DOCTOR OF PHILOSOPHY
IN PHYSICS

ಪದವಿಯನ್ನು ಪಡೆಯಲು ಅಂಗೀಕೃತರಾಗಿರುವುದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.
*on being duly certified to have qualified for the same in the
month of January, 2007*

ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ
Title of the thesis :

" GROWTH AND PROPERTIES OF THIOUREA AND GLYCINE
MIXED NON - LINEAR OPTICAL MATERIALS ".

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.
Given under the Seal of the University

PRINCIPAL

Alva's Institute of Engg. & Technology,
Mijar, MOODBIDRI - 574 225, U.K

ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
MANGALAGANGOTRI, KARNATAKA STATE, INDIA

ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ : 13th January 2007
Date of Convocation



ಕುಲಪತಿ
VICE-CHANCELLOR

UNIVERSITÉ DE VERSAILLES SAINT-QUENTIN-EN-YVELINES

ATTESTATION DE REUSSITE AU DOCTORAT

Vu l'arrêté du 7 août 2006 relatif aux Etudes Doctorales

Vu l'arrêté du 22 juillet 1991 portant création de l'Université de Versailles Saint-Quentin-en-Yvelines

Vu le rapport de soutenance établi par les membres du jury suivant :

GERARD COQUEREL, Professeur des Universités, GREGOR MALI, Professeur des Universités,
FRANCIS TAULELLE, Directeur de Recherche, MOHAMED EL-HAJJI, Docteur,
JEAN-PHILIPPE STARCK, Président Directeur Général, NATHALIE STEUNOU, Professeur des Universités

Monsieur CHANDRAPPA Ravi Kumar

né le 23 mars 1980 à CHITRADURGA KARNATAKA (Inde)

a obtenu le 5 octobre 2011

LE DOCTORAT DE L'UNIVERSITE DE VERSAILLES SAINT-QUENTIN-EN-YVELINES

Spécialité CHIMIE DES MATERIAUX

Sujet de la thèse : « Caractérisation de formulations pharmaceutiques par RMN solide : Polymorphisme et Déformulation »

Mention Très Honorable

Fait à Versailles, le 3 novembre 2011

Directeur Général des Services
N. MIGNAN

Le Titulaire



N° 080299

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು ಮತ್ತು ಸೆನೆಟ್ ಸದಸ್ಯರಾದ ನಾವು

We the Chancellor, the Vice - Chancellor and the members of the Senate of Mangalore University do hereby make known that

ಪ್ರಕಾಶ್ ಶೆಟ್ಟಿ ಅವರು

PRAKASH SHETTY

has been admitted to the Degree of

1998 ನೆಯ ವರ್ಷದ ಜೂನ್ ತಿಂಗಳಲ್ಲಿ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ

ರಸಾಯನಶಾಸ್ತ್ರದಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

DOCTOR OF PHILOSOPHY

IN CHEMISTRY

ಪದವಿಯನ್ನು ಪಡೆಯಲು ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ಶ್ರುತಪಡಿಸುತ್ತೇವೆ.

on being duly certified to have qualified for the same in the month of June 1998

ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ :

Title of the thesis :

" STUDIES ON ORGANIC REAGENTS FOR SPECTROPHOTOMETRIC AND CHELATOMETRIC DETERMINATION OF METALS "

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಅಂಚನದೊಂದಿಗೆ ನೀಡಿದೆ.

Given under the seal of the University

ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
MANGALAGANGOTRI, Karnataka State, INDIA

ಘಟಕೋತ್ಸವ ದಿನಾಂಕ : 20 February, 1999
Date of Convocation



[Signature]
VICE-CHANCELLOR

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ



ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹ ಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು, ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ಶೈಕ್ಷಣಿಕ ಮಂಡಳಿ ಸದಸ್ಯರಾದ ನಾವು

We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor and the members of Syndicate and Academic Council of Mangalore University do hereby make known that

ದಾಮೋದರ ಎನ್ ಆಮರು
DAMODARA N.

has been admitted to the Degree of

2002ನೆಯ ವರ್ಷದ ಮೇ ತಿಂಗಳಲ್ಲಿ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ

ರಸಾಯನಶಾಸ್ತ್ರದಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

**DOCTOR OF PHILOSOPHY
IN CHEMISTRY**

ಪದವಿಯನ್ನು ಪಡೆಯಲು ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ಶ್ರುತಪಡಿಸುತ್ತೇವೆ.

*on being duly certified to have qualified for the same in the
month of May 2002*

ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ

Title of the thesis :

"STRUCTURE - REACTIVITY STUDIES ON SOME LIQUID PHASE OXIDATIONS".

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.

Given under the Seal of the University

ಮಂಗಳಗಂಗೋತ್ರಿ, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
MANGALAGANGOTRI, Karnataka State, INDIA

ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ : 15th February 2003
Date of Convocation



[Signature]
ಕಲಮೆ
VICE-CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

SAKSHI S KAMATH

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF APPLIED SCIENCES (CHEMISTRY)

for the thesis entitled

THE STUDY OF SURFACE MODIFICATIONS AND FIBRE LOADING ON
ARECA FIBRE REINFORCED POLYMER COMPOSITES

*in recognition of the fulfillment of requirements
for the said degree*

PH
19 001794

Given under the seal of the University

USN: 4AL17PGA04



BELAGAVI

DATE : MARCH 10, 2022

VICE CHANCELLOR

Registration No.



100499MA10F02



National Institute of Technology Karnataka, Surathkal

hereby confers the degree of

Doctor of Philosophy

on

Prameela Kolake

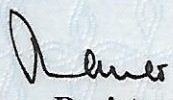
in recognition of the research work on

"NEW ASPECTS OF DOMINATION AND COMPLEMENTATION IN GRAPHS"

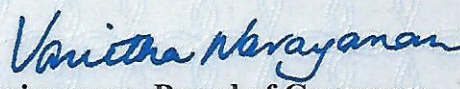
*carried out in the Department of
Mathematical And Computational Sciences
and completed all the requirements
in February 2015*

*Given under the seal of the Institute,
on 14th November 2015*




Registrar


Director


Chairperson, Board of Governors

Sl. No. PH15044

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

SURESHA P S

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF MECHANICAL ENGINEERING SCIENCES

for the thesis entitled

MECHANICAL CHARACTERIZATION OF ARECA SHEATH FIBRE
REINFORCED WITH POLYMER COMPOSITE MATERIALS

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 01636

Given under the seal of the University

USN: 4SH15PMJ01

Date of Viva Voce : 24-Jan-2024



BELAGAVI

DATE : MARCH 07, 2024

VICE CHANCELLOR

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

PRAMOD V BADYANKAL

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ ಮೇಲೆ ಕಾಣಿಸಿದ
ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

has been conferred the Degree of

Doctor of Philosophy

in recognition of the fulfillment of requirements for the said degree

For the thesis entitled/ ಕೆಳಕಂಡ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

CHARACTERIZATION OF MECHANICAL AND WEAR PROPERTIES ON
HYBRID COMPOSITE OF SISAL, PINEAPPLE AND BANANA FIBER
REINFORCED WITH EPOXY COMPOSITES

ಪರೀಕ್ಷಾ ಕ್ರಮ ಸಂಖ್ಯೆ

University Seat Number : 4JD16PMJ02

ವಿಭಾಗ/Branch

: FACULTY OF MECHANICAL ENGINEERING SCIENCES

PH
23 002370

Given under the seal of the University

Date of Viva Voce : 13-May-2024

ಬೆಳಗಾವಿ

Belagavi

ದಿನಾಂಕ

Date : JULY 18, 2024



ಕುಲಪತಿ

VICE CHANCELLOR

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that
KUMAR SWAMY M C

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ ಮೇಲೆ ಕಾಣಿಸಿದ
ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

has been conferred the Degree of
Doctor of Philosophy

in recognition of the fulfillment of requirements for the said degree
For the thesis entitled/ ಕೆಳಕಂಡ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

AN INVESTIGATION ON THERMAL PERFORMANCE OF INTERFACIAL
MATERIALS USING LOW MELTING TEMPERATURE ALLOYS

ಪರೀಕ್ಷಾ ಕ್ರಮ ಸಂಖ್ಯೆ

University Seat Number : 4AL16PMJ01

ವಿಭಾಗ/Branch

: FACULTY OF MECHANICAL ENGINEERING SCIENCES

PH 002352
23

Given under the seal of the University

Date of Viva Voce : 05-Apr-2024

ಬೆಳಗಾವಿ

Belagavi

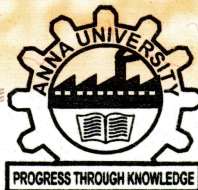
ದಿನಾಂಕ

Date : JULY 18, 2024



ಕುಲಪತಿ

VICE CHANCELLOR



Reg.No. 17134697210/RG

*The Syndicate of the Anna University hereby makes known that **SENTHIL KUMAR R** has been admitted to the **DEGREE OF DOCTOR OF PHILOSOPHY** under the *Faculty of Information and Communication Engineering*, having been certified by the duly appointed examiners to be qualified to receive the same in the year **2024**. The degree has been awarded in compliance with the "University Grants Commission, Regulations 2016".*

Title of the Thesis:

CERTAIN INVESTIGATION ON MEDICAL IMAGE PROCESSING USING HYBRID ALGORITHM

Given under the Seal of the University



Chennai 600 025

India

July 2024

UAR014189

P. Senthil Kumar
Controller of Examinations

SENTHIL KUMAR R

[Signature]
Registrar

R. V. [Signature]
Vice-Chancellor

793f655959b771e3c726c4750a58035f8



Sl.No: MJ 1368861

Read by	T. Subhashini
Verified by	M. Pray

JUC 80019

JGI

UNIVERSITY



JAIN UNIVERSITY

Declared as Deemed-to-be University u/s 3 of the UGC Act, 1956
vide MHRD Notification No. F-9-57/2007-U3(A)

*We, the Chancellor, Vice Chancellor,
Members of the Board of Management &
Academic Council of Jain University certify that*

Rachana P

*having been examined in July-2018
with Reg. No. 13PPECE007
has been conferred with the Degree of*

DOCTOR OF PHILOSOPHY
in Electronics Engineering

*by Jain University, Bengaluru
on the 1st day of September 2018.*

*In Testimony whereof are set the seal of the
said University and the signature of the
said Vice Chancellor*

PRINCIPAL

Alva's Institute of Engg. & Technology,
Major. MOODBIDRI - 574 225, D.K

Date : 01.09.2018

N. Sundar
Vice Chancellor



जैन विश्वविद्यालय

विश्वविद्यालय अनुदान आयोग अधिनियम, 1956 के अनुभाग 3 के अन्तर्गत मानव संसाधन विकास मंत्रालय की
अभिप्रेत संख्या एफ. 9-57/2007-यू3(ए) के द्वारा समविश्वविद्यालय के रूप में घोषित

हम, जैन विश्वविद्यालय के कुलाधिपति, कुलपति,
प्रबन्धन परिषद् के सदस्य एवं
शिक्षा समिति, प्रमाणित करते हैं कि

रचना पी.

जिनकी पंजीयन संख्या 13PPECE007 है,
जुलाई-२०१८ के परीक्षोपरांत

पीएच. डी.

विद्युन्मान अभियांत्रिकी

की उपाधि में उत्तीर्ण हुए।
जैन विश्वविद्यालय, बेंगलूरु की ओर से
दिनांक १ सितंबर २०१८ को इन्हें यह उपाधि
प्रदान की गई है, जिसके प्रमाण स्वरूप उक्त
विश्वविद्यालय की मोहर एवं
उक्त कुलपति के हस्ताक्षर अंकित हैं।

एन. सुन्दरराजन
कुलपति

Professor Profile

Status	Appl. # (RSRI)	Professor Name	Email ID	
Approved	7680 (VTU01207680)	↓ RACHANA P	2000.rachana@gmail.com	Edit VTU Non-VTU

V.T.U, Belagavi © 2021 - SrushtSoft



PRINCIPAL
Riva's Institute of Engg. & Technology,
Majur, In00 . JRI - 574 225, D.K

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

GURUPRASAD PAI B

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ ಮೇಲೆ ಕಾಣಿಸಿದ
ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

has been conferred the Degree of

Doctor of Philosophy

in recognition of the fulfillment of requirements for the said degree

For the thesis entitled/ ಕೆಳಕಂಡ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

A STUDY ON ATTRITION RATE OF FACULTY MEMBERS AMONG SELF-
FINANCING ENGINEERING INSTITUTES IN KARNATAKA

ಪರೀಕ್ಷಾ ಕ್ರಮ ಸಂಖ್ಯೆ

University Seat Number : 4SN15PBJ01

ವಿಭಾಗ/Branch

: FACULTY OF MANAGEMENT

PH 002566
23

Given under the seal of the University

Date of Viva Voce : 23-Apr-2024

ಬೆಳಗಾವಿ
Belagavi

ದಿನಾಂಕ

Date : JULY 18, 2024



[Signature]

ಕುಲಪತಿ

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

PRADEEP N R

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

DEVELOPMENT OF EFFICIENT BIOMETRIC ALGORITHMS FOR
AUTHENTICATION USING FINGERPRINT

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00572

Given under the seal of the University

USN: 1GA16PEJO4



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA

PH
19 1180

Provisional Degree Certificate

This is to certify that Mr./Ms. PRADEEP N R

is qualified for the award of the degree of

DOCTOR OF PHILOSOPHY IN FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES W.E.F. 23.02.2023

*of this University for having fulfilled the requirements for the award
of the said Degree by submitting the thesis titled :*

DEVELOPMENT OF EFFICIENT BIOMETRIC ALGORITHMS FOR AUTHENTICATION USING
FINGERPRINT

with University Seat No. 1GA16PEJ04

*The degree will be conferred on him / her at the next
convocation or thereafter,*

Belagavi

Date : 23-02-2023



[Signature]

Registrar (Evaluation)



Karunya

INSTITUTE OF TECHNOLOGY AND SCIENCES

SOLVING HUMAN PROBLEMS

(Deemed to be University under Sec.3 of the UGC Act, 1956)

KARUNYA NAGAR, COIMBATORE - 641 114, TAMIL NADU, INDIA.



*The Executive Council
hereby makes known that*

NAPOLEAN A

*has been admitted to the Degree of
Doctor of Philosophy
in*

Electronics and Communication Engineering
under the Faculty of Engineering

*having been certified by duly appointed examiners to be
qualified to receive the same in October 2023*

Title of the Thesis :

*Investigations on modeling and fabrication of low power nanoscale resistive random access
memory (RRAM) device*

*Given under the seal of the
Deemed to be University.*

Dated 6th July 2024



RR17EC001
Mode Regular



Paul Chinakara
CHANCELLOR

C. P. S.
VICE CHANCELLOR

[Signature]
REGISTRAR

Sl. No.: F 018165



Prepared by	<i>C. Mathur</i>	
Checked by	<i>Deep</i>	
Controller of Examinations	<i>THH</i>	



VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

GANESH

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

STUDY ON METAL OXIDE THIN FILMS FOR FLEXIBLE DISPLAY DEVICE APPLICATIONS

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00468

Given under the seal of the University

USN: 4CB13PEN01



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

GANESH K

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

AN APPROACH OF VIDEO QUALITY ASSESSMENT FOR VIDEO PROCESSING
SYSTEM

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00490

Given under the seal of the University

USN: 4VV13PEN01



BELAGAVI

DATE : FEBRUARY 24, 2023

VICE CHANCELLOR



This is to certify that

VINAY S

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Civil Engineering Sciences

for the thesis entitled

*Modeling of Ecological Flow of Rivers in Central Western
Ghats*

*in recognition of the fulfillment of requirements
for the said degree*

PH
19 000272

Given under the seal of the University

USN: 5VX13PCN08



BELAGAVI

DATE : Feb 08, 2020

VICE CHANCELLOR



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,
 We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor,
 ವಿದ್ಯಾವಿಪಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು
 the members of the Academic Council and the Syndicate

Certify that

SHIVAPRASAD B J

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂದಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ,
 on the recommendation of the Board of Examiners, admitted to the degree of

Doctor of Philosophy
 (Computer Science)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
 in recognition of the fulfilment of requirements
 ೩೨ನೇ ಫೆಬ್ರವರಿಯಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.
 for the said Degree at the 32nd Convocation

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 17/11/2021

ಫೆಬ್ರವರಿಯ ದಿನಾಂಕ / Date of Convocation : 16th June 2022

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹೂರಣದೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ.

Given under the seal of the University.



Vinayaka Mission's Research Foundation
(Deemed To Be University)
Formerly Vinayaka Missions University
(Declared under section 3 of the UGC Act, 1956)



FACULTY OF ENGINEERING & TECHNOLOGY

The Board of Management of the

Vinayaka Mission's Research Foundation

hereby makes known that

PUSHPARANI M K

has been admitted to the Degree of

Doctor of Philosophy in Electronics & Communication Engineering

having been certified by duly appointed Examiners

to have qualified to receive the same in the year 2023 the thesis entitled

Plant Leaf Disease Detection Using Transfer Learning Models

Viva-Voce Examination held on 11.01.2023

Given under the seal of the University



Salem, 07-07-2023

C. Prabhakarath
Controller of Examinations

[Signature]
Registrar

[Signature]
Vice-Chancellor



UNIVERSITY OF AGRICULTURAL SCIENCES, RAICHUR

KARNATAKA, INDIA

DIRECTORATE OF POSTGRADUATE STUDIES

Sl. No. 13

Date: 06 APR 2021



PROVISIONAL DEGREE CERTIFICATE

This is to certify that Ms. VINUTA MUDAKAPPA BETAGERI D/o MUDAKAPPA BASAPPA BETAGERI, Ph. D. degree student bearing ID. No. PHD17AEG7039 in the Department of SOIL AND WATER ENGINEERING has successfully completed the requirement of the course work as well as the thesis prescribed for the award of Ph. D. degree during 2021.

She has secured an Overall Grade Point Average of 9.17/10.00 in 10.00 point scale (91.70 per cent).




REGISTRAR
REGISTRAR
University of Agricultural Sciences
RAICHUR, KARNATAKA, INDIA



TAMIL NADU AGRICULTURAL UNIVERSITY

Coimbatore - 641 003, Tamil Nadu, INDIA.

Ref. No. E.2. / Edn. PG. PC./ 2024

Dated : 28-03-2024

PROVISIONAL DEGREE CERTIFICATE

Certified that *Thiru / Selvi* Kommanaboyina Raju Yadav

J.D. No 2020644001 *has successfully completed the prescribed courses*

and credit requirements for the award of the Degree of **Doctor of Philosophy**

in ~~xxx~~ Farm Machinery and Power Engineering

of this University during 2024 *with an Overall Grade Point*

Average of 8.17 *out of 10.00 (* 81.70 *% Marks).*

Result Declared on : 28-03-2024



REGISTRAR

Prepared By	T. Sengul
Verified By	A. Shalim





ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಾಗಲಕೋಟೆ, ಕರ್ನಾಟಕ, ಭಾರತ
UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT, KARNATAKA, INDIA



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ಹಾಗೂ ವ್ಯವಸ್ಥಾಪನಾ ಮಂಡಳಿಯು
 ಸ್ನಾತಕೋತ್ತರ ಪದವಿಯ ಅಧ್ಯಯನ ಮಂಡಳಿ ಹಾಗೂ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಶಿಫಾರಸ್ಸಿನ ಮೇರೆಗೆ

ರಾಹುಲ ಫಾಟಕ್

ತಂದೆ: ಸುಧೀರ್

ಇವರು ನಿಗದಿತ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತೀರ್ಣರಾಗಿರುವುದರಿಂದ

ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನದ ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ ಪದವಿ

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುಠೈ ಹಾಗೂ ಕುಲಪತಿಗಳ ಸಹಿಯೊಂದಿಗೆ
 ದಿನಾಂಕ ೨೭ನೇ ಫೆಬ್ರವರಿ, ೨೦೧೯ ರಂದು ಜರುಗಿದ ಎಂಟನೆಯ ಸಭಿಕೋತ್ಸವದಲ್ಲಿ ಪ್ರದಾನ ಮಾಡಲಾಗಿದೆ.

The Chancellor, the Pro Chancellor, the Vice Chancellor and the Board of Management of this University
 upon the recommendations of Board of Studies (Post-Graduate Programme) and the Academic Council confer the degree of

Doctor of Philosophy in Horticulture



to
RAHUL PHATAK
 S/o. SUDHEER

During the Eighth Convocation held on 27th February, 2019 in testimony whereof are set the seal of the
 University with the signature of the Vice-Chancellor.



ID NO. UHS14PGD79



ಕುಲಪತಿ
 Vice Chancellor



ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನಗಳ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬಾಗಲಕೋಟೆ, ಕರ್ನಾಟಕ, ಭಾರತ
UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT, KARNATAKA, INDIA



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ಹಾಗೂ ವ್ಯವಸ್ಥಾಪನಾ ಮಂಡಳಿಯು
 ಸ್ನಾತಕೋತ್ತರ ಪದವಿಯ ಅಧ್ಯಯನ ಮಂಡಳಿ ಹಾಗೂ ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಶಿಫಾರಸ್ಸಿನ ಮೇರೆಗೆ

ರಾಹುಲ ಫಾಟಕ್

ತಂದೆ: ಸುಧೀರ್

ಇವರು ನಿಗದಿತ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಉತ್ತೀರ್ಣರಾಗಿರುವುದರಿಂದ

ತೋಟಗಾರಿಕೆ ವಿಜ್ಞಾನದ ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ ಪದವಿ

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಅಧಿಕಾರ ಮುಢ್ದೆ ಹಾಗೂ ಕುಲಪತಿಗಳ ಸಹಿಯೊಂದಿಗೆ

ದಿನಾಂಕ ೨೭ನೇ ಫೆಬ್ರವರಿ, ೨೦೧೯ ರಂದು ಜರುಗಿದ ಎಂಟನೆಯ ಫಟಕೋತ್ತರವಲ್ಲ ಪ್ರದಾನ ಮಾಡಲಾಗಿದೆ.

The Chancellor, the Pro Chancellor, the Vice Chancellor and the Board of Management of this University upon the recommendations of Board of Studies (Post-Graduate Programme) and the Academic Council confer the degree of



Doctor of Philosophy in Horticulture

to

RAHUL PHATAK

S/o. SUDHEER

During the Eighth Convocation held on 27th February, 2019 in testimony whereof are set the seal of the University with the signature of the Vice-Chancellor.



ID NO. UHS14PGD79



ಕುಲಪತಿ

Vice Chancellor

Registration No.



155094AM15F10



National Institute of Technology Karnataka, Surathkal

hereby confers the degree of
Doctor of Philosophy
on



Surajit Deb Barma

in recognition of the research work on

"EVALUATION OF THE WATER BUDGET COMPONENTS OF THE BRAHMAPUTRA RIVER
BASIN USING SATELLITE DATA"

and completed all the requirements
in October 2023

Given under the seal of the Institute,
on 04th November 2023




Registrar


Director


Chairperson, Board of Governors

Sl. No. PH23131

ಮಂಗಳೂರು
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ
UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಕುಲಾಧಿಪತಿಗಳು, ಸಹಕುಲಾಧಿಪತಿಗಳು, ಕುಲಪತಿಗಳು,
ಸಿಂಡಿಕೇಟ್ ಮತ್ತು ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತಿನ ಸದಸ್ಯರುಗಳಾದ ನಾವು

ಸಂಶುದ್ದೀನ್ ಎಸ್.

ಅವರು ೨೦೧೩ನೆಯ ವರ್ಷದ ಎಪ್ರಿಲ್ ತಿಂಗಳಿನಲ್ಲಿ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ನಿರ್ದಿಷ್ಟ ಅರ್ಹತೆಯನ್ನು ಪಡೆದಿರುವರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
೨೦೧೪ ರ ಫೆಬ್ರವರಿ ತಿಂಗಳ ಇಪ್ಪತ್ತನಾಲ್ಕನೇ ದಿನದಂದು ನಡೆದ ೩೨ನೆಯ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ
ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ನಿಕಾಯದ ರಸಾಯನಶಾಸ್ತ್ರ
ಅಧ್ಯಯನ ಮಂಡಳಿಯ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಅಂಗೀಕೃತರಾಗಿರುವರೆಂದು ಈ ಮೂಲಕ ದೃಢೀಕರಿಸುತ್ತೇವೆ.

*We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor
and the members of the Syndicate and Academic Council of Mangalore University
do hereby make known that*

SAMSHUDDIN S.

has been admitted to the Degree of

DOCTOR OF PHILOSOPHY

*at the 32nd Convocation held on the 24th day of February 2014 on being duly certified to have
qualified for the same in the month of April 2013
for the thesis / ಮಹಾಪ್ರಬಂಧದ ಶೀರ್ಷಿಕೆ:*

**"SYNTHESIS AND STRUCTURAL STUDIES OF SOME NEW NITROGEN CONTAINING
HETEROCYCLIC COMPOUNDS"**

in the Faculty of Science and Technology under the Board of Studies in Chemistry

ವಿಶ್ವವಿದ್ಯಾನಿಲಯದ ಲಾಂಛನದೊಂದಿಗೆ ನೀಡಿದೆ.

Given Under the Seal of the University

